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1 Managing capacity for telecommunications networks under uncertainty 80%



Yann d'Halluin , Peter A. Forsyth , Kenneth R. Vetzal

IEEE/ACM Transactions on Networking (TON) August 2002

Volume 10 Issue 4

The existing telecommunications infrastructure in most of the world is adequate to deliver voice and text applications, but demand for broadband services such as streaming video and large file transfer (e.g., movies) is accelerating. The explosion in Internet use has created a huge demand for telecommunications capacity. However, this demand is extremely volatile, making network planning difficult. In this paper, modern financial option pricing methods are applied to the problem of network inves ...

2 Data mining techniques for optimizing inventories for electronic 80%



commerce

Anjali Dhond , Amar Gupta , Sanjeev Vadhavkar

Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining August 2000

3 A cost-benefit decision model: analysis, comparison and selection of 80%



data management

Stanley Y. W. Su , Jozo Dujmovic , D. S. Batory , S. B. Navathe , Richard Elnicki

ACM Transactions on Database Systems (TODS) September 1987

Volume 12 Issue 3

This paper describes a general cost-benefit decision model that is applicable to the evaluation, comparison, and selection of alternative products with a multiplicity of features, such as complex computer systems. The application of this model is explained and illustrated using the selection of data management systems as an example. The model has the following features: (1) it is mathematically based on an

extended continuous logic and a theory of complex criteria; (2) the decisi ...

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4

Estimating campaign benefits and modeling lift

Gregory Piatetsky-Shapiro , Brij Masand

Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining August 1999

80%
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4

Session 1: creative mathematics: Secure multi-party computation problems and their applications: a review and open problems

Wenliang Du , Mikhail J. Atallah

Proceedings of the 2001 workshop on New security paradigms September 2001

The growth of the Internet has triggered tremendous opportunities for cooperative computation, where people are jointly conducting computation tasks based on the private inputs they each supplies. These computations could occur between mutually untrusted parties, or even between competitors. For example, customers might send to a remote database queries that contain private information; two competing financial organizations might jointly invest in a project that must satisfy both organizations' ...

80%
- 6

4

Recursive Pattern: A Technique for Visualizing Very Large Amounts of Data

Daniel A. Keim , Mihael Ankerst , Hans-Peter Kriegel

Proceedings of the 6th conference on Visualization '95 October 1995

An important goal of visualization technology is to support the exploration and analysis of very large amounts of data. In this paper, we propose a new visualization technique called 'recursive pattern' which has been developed for visualizing large amounts of multidimensional data. The technique is based on a generic recursive scheme which generalizes a wide range of pixel-oriented arrangements for displaying large data sets. By instantiating the technique with adequate data- and application- de ...

80%
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4

Towards a laboratory instrument for motion analysis

Ronald Baecker , David Miller , William Reeves

ACM SIGGRAPH Computer Graphics , Proceedings of the 8th annual conference on Computer graphics and interactive techniques August 1981

Volume 15 Issue 3

Motion analysis is the systematic and usually quantitative study of the movements of humans, animals, organisms, cells, or other entities as recorded on movie film or video tape. Despite the utility of computer-aided motion analysis to many biological, social, and physical sciences, its role has been limited because it is so time-consuming and so expensive. Automated techniques can only be used on real images in very special cases; interactive techniques have involved labor ...

80%
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4

Dissolving firm boundaries through surveillance: incomplete contracts, information assets, and process integration

Jonathan Wareham

Proceedings of the international conference on Information systems December 1998

80%
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4

Understanding process and the quest for deeper questions in software engineering research

77%



Leon J. Osterweil

ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 10th ACM SIGSOFT international symposium on Foundations of software engineering September 2003
Volume 28 Issue 5

This paper provides a brief summary of some overall currents and directions in my research with a particular emphasis on my work in the area of process. Using this perspective as a basis, the paper suggests the importance of using the challenge of grappling with hard technical problems as a basis for searching for deeper questions. The search for deep and enduring problems at the core of our discipline is rewarding for individual researchers and could provide substance, direction, purpose, and c ...

10 Industrial/government track: Clinical and financial outcomes analysis 77%



with existing hospital patient records

R. Bharat Rao , Sathyakama Sandilya , Radu Stefan Niculescu , Colin Germond , Harsha Rao

Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining August 2003

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

11 Architecture and performance of server-directed transcoding 77%



Björn Knutsson , Honghui Lu , Jeffrey Mogul , Bryan Hopkins

ACM Transactions on Internet Technology (TOIT) November 2003

Volume 3 Issue 4

Proxy-based transcoding adapts Web content to be a better match for client capabilities (such as screen size and color depth) and last-hop bandwidths. Traditional transcoding breaks the end-to-end model of the Web, because the proxy does not know the semantics of the content. *Server-directed transcoding* preserves end-to-end semantics while supporting aggressive content transformations. We show how server-directed transcoding can be integrated into the HTTP protocol and into the implementat ...

12 Microcomputer technology for drilling 77%



Henry D. Shapiro , B. V. Randall

Proceedings of the 1986 workshop on Applied computing October 1986

Drilling costs are a significant portion of exploration and production budgets. For this reason, the use of complex mathematical models to optimize drilling operations began in the early 1950s, at roughly the same time as the introduction of the first commercially available digital computer. Twenty years of development and field testing resulted in the release of sophisticated drilling optimization programs to the oil industry in 1971. Despite being tied to large mainframe computers, by 197 ...

13 IFPS: A lot more than a spreadsheet 77%



Donald R. Plane

Proceedings of the 15th conference on Winter Simulation - Volume 2 December 1983

The Interactive Financial Planning system (IFPS) is a powerful modeling language which can effectively be used by managers (with no computing background) and by

computer professionals. Although a quick introduction to the system may leave the impression that IFPS is basically a spreadsheet system, it has capabilities far beyond the typical spreadsheet system. These capabilities include Monte Carlo simulation and optimization.

14 Issues in data stream management

77%



Lukasz Golab , M. Tamer Özsu

ACM SIGMOD Record June 2003

Volume 32 Issue 2

Traditional databases store sets of relatively static records with no pre-defined notion of time, unless timestamp attributes are explicitly added. While this model adequately represents commercial catalogues or repositories of personal information, many current and emerging applications require support for on-line analysis of rapidly changing data streams. Limitations of traditional DBMSs in supporting streaming applications have been recognized, prompting research to augment existing technolog ...

15 Graphics and managerial decision making: research-based guidelines

77%



S. L. Jarvenpaa , G. W. Dickson

Communications of the ACM June 1988

Volume 31 Issue 6

Graphical charts are generally thought to be a superior reporting technique compared to more traditional tabular representations in organizational decision making. The experimental literature, however, demonstrates only partial support for this hypothesis. To identify the characteristics of the situations that have been shown to benefit from the use of graphics, existing studies are reviewed in terms of the type of task used, the format employed, and the user experience. The examination of ...

16 Statistical profile estimation in database systems

77%



Michael V. Mannino , Paicheng Chu , Thomas Sager

ACM Computing Surveys (CSUR) September 1988

Volume 20 Issue 3

A statistical profile summarizes the instances of a database. It describes aspects such as the number of tuples, the number of values, the distribution of values, the correlation between value sets, and the distribution of tuples among secondary storage units. Estimation of database profiles is critical in the problems of query optimization, physical database design, and database performance prediction. This paper describes a model of a database of profile, relates this model to estimating ...

17 Southern Ontario Numerical Analysis Day

77%



ACM SIGSAM Bulletin September 2000

Volume 34 Issue 3

18 Understanding the effectiveness of computer graphics for decision

77%



support: a cumulative experimental approach

Gary W. Dickson , Gerardine DeSanctis , D. J. McBride

Communications of the ACM January 1986

Volume 29 Issue 1

A total of 840 junior and senior-level undergraduate business students participated in three experiments that compared computer-generated graphical forms of data presentation to traditional tabular reports. The first experiment compared tables and bar charts for their effects on readability, interpretation accuracy, and decision

making. No differences in interpretation accuracy or decision quality were observed for the two groups, although tabular reports were rated as "easier to read and un ...

19 Research contributions: What's an MIS paper worth?: (an exploratory analysis) 77%



T. Grandon Gill

ACM SIGMIS Database April 2001

Volume 32 Issue 2

The article performs an economic analysis of MIS salary data and survey data from a variety of sources in order to estimate the marginal value of a published MIS refereed journal article to its author, a faculty member. The three main conclusions it reaches are: • A published MIS refereed journal article can be worth approximately \$20,000 in incremental pay, over an assumed five-year lifetime, to a faculty member. That value is derived from two sources: (1) the ability such a paper gives the ...

20 Analysis methodology I: Quasi-Monte Carlo methods in cash flow testing simulations 77%





Michael G. Hilgers

Proceedings of the 32nd conference on Winter simulation December 2000

What actuaries call *cash flow testing* is a large-scale simulation pitting a company's current policy obligation against future earnings based on interest rates. While life contingency issues associated with contract payoff are a mainstay of the actuarial sciences, modeling the random fluctuations of US Treasury rates is less studied. Furthermore, applying standard simulation techniques, such as the Monte Carlo method, to actual multi-billion dollar companies produce a simulation that can ...

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